

CLAIMS:

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1. A picture display device comprising

- a cathode ray tube (1) having an elongated display screen (8) with a long axis (21) and a short axis (22), a cone portion (3) whose cross-section has an elongated shape with a long axis and a short axis, a neck (4) comprising means (5) for generating at least one electron beam (6), and
- a deflection system (9) mounted on said cone portion (3) for generating electromagnetic fields for deflecting said electron beam(s) (6),

characterized in that the deflection system (9) is arranged to scan the electron beam(s) (6) along lines substantially parallel to the short axis (22) of the display screen (8), and in that the part of the cone portion (3a) which is under the deflection system (9) has at least one cross-section whose internal outline has a long axis/short axis ratio (A_c) which is larger than or equal to the long axis/short axis ratio(A_{scr}) of the display screen (8).

2. A picture display device as claimed in claim 1, characterized in that the part of the cone portion (3a) which is under the deflection system (9) has at least one cross-section whose internal outline has a long axis/short axis ratio(A_c) which is larger than the long axis/short axis ratio(A_{scr}) of the display screen (8).

3. A picture display device as claimed in claim 2, characterized in that

20 $(A_c - 1)/(A_{scr} - 1) \geq 1.1$.

4. A picture display device as claimed in claim 2 or 3, characterized in that the part of the cone portion (3) between the reference deflection plane (11) and that end of the deflection system (9) which is nearest to the display screen (8) has a cross-section whose internal outline has a long axis/short axis ratio (A_c) which first increases, goes through a maximum and then decreases.

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5. A picture display device as claimed in any one of claims 1 to 4, characterized in that $A_{scr} > 4/3$.

6. A picture display device as claimed in claim 5, characterized in that $A_{scr} \geq 16/9$

7. A picture display device as claimed in any one of claims 1 to 6, characterized in that the maximum deflection angle of the electron beam(s) (6) is larger than or equal to 120°.